MP 210

New

CE

Calibration CERTIFICATE

- • 2   Pt100
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- 2014

MP 210

MP210 P
  : MP 210 +   MPR500(± 500Pa)

MP210 M
  : MP 210 +   MPR2500(± 2500Pa)

MP210 G
  : MP 210 +   MPR10000(± 10000Pa)

  6. 2mm   2ea,
                    1ea

MP210 H
  : MP 210 +   MPR500M(± 500mbar)

MP210 HP
  : MP 210 +   MPR2000M(± 2000mbar)

  4. 6mm   2ea,
                    1ea

mini- DIN
      ,
            .

USB   .

MPR 500	Pa, mmH$_2$O, In WG, mbar, hPa, mmHg, daPa, kPa	From 0 to ±500 Pa	From -100 to +100 Pa : ±0.2% of reading ±0.8 Pa Beyond : ±0.2% of reading ±1.5 Pa	From -100 to +100 Pa : 0.1 Pa Beyond : 1 Pa	250 mbar
MPR 2500		From 0 to ±2500 Pa	±0.2% of reading ±2 Pa	1 Pa	500 mbar
MPR 10000		From 0 to ±10000 Pa	±0.2% of reading ±10 Pa	1 Pa	1200 mbar
MPR 500 M	mmH$_2$O, In WG, mbar, hPa, mmHg, daPa, kPa, PSI	From 0 to ±500 mbar	±0.2% of reading ±0.5 mbar	0.1 mbar	2 bar
MPR 2000 M	bar, In WG, mbar, hPa, mmHg, kPa, PSI	From 0 to ±2000 mbar	±0.2% of reading ±2 mbar	1 mbar	6 bar

K, J, T, S

	°C, °F	K : From -200 to +1300°C J : From -100 to +750°C T : From -200 to +400°C S : From 0 to 1760°C	K, J, T : From -200 to 0 °C : ±0.4°C ±0.3 % of reading From 0 to 1300 °C : ±0.4°C S : ±0.6 °C	0.1 °C 0.1 °C 0.1 °C 0.1 °C

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	Air velocity : m/s, fpm, km/h, mph	From 2 to 5 m/s From 5.1 to 100 m/s	±0.3 m/s ±0.5% of reading ±0.2 m/s	0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999m³/h	±0.2% of reading ±1% FS	1 m³/h
	Air velocity : m/s, fpm, km/h, mph	From 4 to 20 m/s From 21 to 100 m/s	±0.3 m/s ±1% of reading ±0.1 m/s	0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999m³/h	±0.2% of reading ±1% PE	1 m³/h
14mm	Air velocity : m/s, fpm, km/h	From 0 to 3 m/s From 3.1 to 25 m/s	From 0.8 to 3 m/s : ±3% of reading ±0.1m/s From 3.1 to 25 m/s : ±1% of reading ±0.3 m/s	0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999 m³/h	±3% of reading ou ±0.03*area surface (cm²)	1 m³/h
	Temperature : °C, °F	From -20 to +80°C	±0.4% of reading ±0.3°C	0.1 °C
70mm	Air velocity : m/s, fpm, km/h	From -5 to 3 m/s From 3.1 to 35 m/s	From 0.4 to 3 m/s : ±3% of reading ±0.1m/s From 3.1 to 35 m/s : ±1% of reading ±0.3 m/s	0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999 m³/h	±3% of reading ou ±0.03*area surface (cm²)	1 m³/h
	Temperature : °C, °F	From -20 to +80°C	±0.4% of reading ±0.3°C	0.1 °C
100mm	Air velocity : m/s, fpm, km/h	From -5 to 3 m/s From 3.1 to 35 m/s	From 0.3 to 3 m/s : ±3% of reading ±0.1m/s From 3.1 to 35 m/s : ±1% of reading ±0.3 m/s	0.01 m/s 0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999 m³/h	±3% of reading or ±0.03*area surface (cm²)	1 m³/h
	Temperature : °C, °F	From -20 to +80°C	±0.4% de la lecture ±0.3°C	0.1 °C
	Air velocity : m/s, fpm, km/h	From 0.15 to 1 m/s From 0.15 to 3 m/s From 3.1 to 30 m/s	± 2%of reading ± 0.03 m/s** ± 3%of reading ± 0.03 m/s ± 3% of reading ± 0.1 m/s	0.01 m/s 0.01 m/s 0.1 m/s
	Airflow : m³/h, cfm, l/s, m³/s	From 0 to 99999 m³/h	±3% of reading ou ±0.03*area surface (cm²)	1 m³/h
	Temperature : °C, °F	From -20 to +80°C	±0.3% of reading ±0.25°C	0.1 °C

- MPR500, MPR2500, MPR10000 　　　　　6.2mm 　　　　2ea, 　　　　　1ea
- MPR500M, MPR2000M 　　　　4.6mm 　　　　2ea, 　　　　1ea

　　MP210 　　　, 　,

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- 　　　　　　　　　　　　　　　　-
- 　　　　　　　(0~9) 　　　　　　-
- 　　/ 　　　　　　　　　　　　-
- 　　　　/ 　　　　　　　　　　-
- 　　　　　　　　　　　　　　- K2

MP210

	SMART-2014 　　　2 mini-DIN 　, 　PC 　1 micro-USB
	-
	59H
	1000 　　, 20000
	0 to +50 °C
	-20 to +80 °C
	15~120 　　　　　　OFF
	485 g
	Neutral gas
Conformity	EMC 2004/108/CE and EN 61010-1 directives
	, 　　, 　　　, 　　　, 　　　　　, 　　, 　　, 　　, 　　　, 　　, 　　, 　　,

/ (　　)

L, S
Measuring ranges from 2 to 100 m/s and from 0 to 99999 m³/h

Measuring ranges from 4 to 100 m/s and from 0 to 99999 m³/h

4 　　　　　　　　　(M4TC)
Measuring range from -200 to +1760 °C (according to thermocouple type)

14mm
Measuring ranges from 0.15 to 30 m/s, from 0 to 99999 m3/h and from -20 to +80 °C

Measuring ranges from 0 to 25 m/s, from 0 to 99999 m3/h and from -20 to +80 °C

70mm
Measuring ranges from -5 to 35 m/s, from 0 to 99999 m3/h and from -20 to +80 °C

100mm
Measuring ranges from -5 to 35 m/s, from 0 to 99999 m3/h and from -20 to +80 °C

CO/ 　　　　　(SCO110)
Measuring ranges from 0 to 500 ppm and from -20 to +80 °C

(SFG300)
Measuring range from 0 to 10 000 ppm

(RPM)
Measuring range from 0 to 60 000 tr/min

(RPM)
Measuring range from 0 to 20 000 tr/min

(　　/ 　　/ 　　…)

Description		MP 210	MP 210 P	MP 210 M	MP 210 G	MP 210 H	MP 210 HP
O~ ± 500 Pa (MPR 500)		○	√	○	○	○	○
O~ ± 2500 Pa (MPR 2500)		○	○	√	○	○	○
O~ ± 10000 Pa (MPR 10000)		○	○	○	√	○	○
O~ ± 500 mbar (MPR 500 M)		○	○	○	○	√	○
O~ ± 2000 mbar (MPR 2000 M)		○	○	○	○	○	√
4 (M4TC)		○	○	○	○	○	○
(SFC 300)		○	○	○	○	○	○
(SFC 900)		○	○	○	○	○	○
14mm	(SH 14)	○	○	○	○	○	○
14mm (SHT 14)		○	○	○	○	○	○
70mm	(SH 70)	○	○	○	○	○	○
70mm (SHT 70)		○	○	○	○	○	○
70mm	(SHF 70)	○	○	○	○	○	○
100mm	(SH 100)	○	○	○	○	○	○
100mm (SHT100)		○	○	○	○	○	○
100mm	(SHF 100)	○	○	○	○	○	○
CO/	(SCO 110)	○	○	○	○	○	○
(SFG 300)		○	○	○	○	○	○
RPM	(STA)	○	○	○	○	○	○
K,J,T,S		○	○	○	○	○	○
PT100	(SMART- 2014)	○	○	○	○	○	○
PT100		○	○	○	○	○	○
4*7mm	2*1mm	○	√	√	√	○	○
4*6mm	2*1mm	○	○	○	○	√	√
	6*100mm	○	√	√	√	○	○
		○	√	√	√	√	√
		√	√	√	√	√	√
		○	○	○	○	○	○

√ : supplied with　　○ : optional

104 mm	63 mm
204 mm	
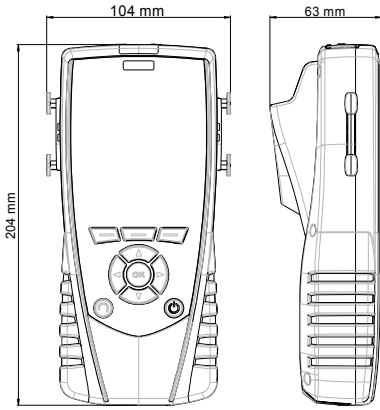
: ABS/PC and elastomer

: IP54

: 120*160
58*76mm

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:10   (Elastomer   )

Piezoresistif sensor is a diaphragm formed on a silicone substrate, which bends with applied pressure and generates millivoltage or millicurrent proportional to the pressure applied.
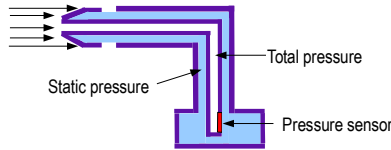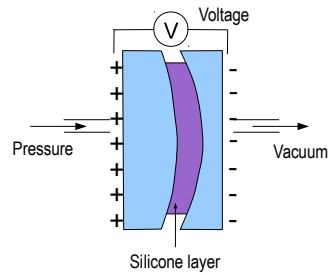
Dynamic pressure is measured by Pitot tube :
Pd = Total pressure (**Pt**) – static pressure (**Ps**)

Velocity is calculated according to Bernoulli simplified formula.

Formula with temperature correction :

$$V_{m/s} = K \times \sqrt{\frac{574,2\, \theta + 156842,77}{P_0}} \times \sqrt{\Delta P_{en\,Pa}}$$

Po = Barometric pressure in Pa
θ = Temperature in °C
K = Pitot tube coefficient

Datalogger :   ,   /

RTE : 1m   ,
90˚

CSM :   Mini-DIN

KIMP23 :

SAD :